		CALING ocol population		
Mean values	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Baseline	2.75	2.93	2.67	2.83
Day 15	1.18	2.14	1.57	2.00
Day 29	0.75	2.14	1.17	1.83
Change from baseline	- 2.00	- 0.79	- 1.50	- 1.00
	P	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs	BMV lotion
0.0001	0.0588		0.01	

	Patients with so	ALING ore of 0 at endpoint col population		
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 at endpoint	29 (51%)	2 (7%)	21 (36%)	4 (14%)
	pγ	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam v	s BMV lotion
< 0.0001	0.0433		0.1	

	Patients with scor	ALING e of 0 or 1 at endpo col population	int	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 or 1 at endpoint	45 (79%)	7 (25%)	36 (62%)	11 (38%)
	in and the second of the secon	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam v	s BMV lotion
< 0.0001	0.0415		0.00	

		YTHEMA ocol population		
Mean values	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Baseline	2.49	2.79	2.48	2.59
Day 15	1.28	2.32	1.52	2.39
Day 29	0.81	2.11	1.22	2.00
Change from baseline	- 1.68	- 0.68	- 1.26	- 0.59
	heeri in dhimmhee p'	values		- 0.39
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		PMV face	DVOV
0.0001	0.0035		BMV foam vs BMV lotion 0.0227	

	Patients with s	YTHEMA score of 0 at endpoint scol population		
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 at endpoint	24 (42%)	2 (7%)	16 (28%)	1 (3%)
	p	values		1 (370)
BMV foam vs vehicle foam	BMV lotion vs	placebo lotion	BMV foam vs	BMV lotion
0.0009	0.0085		BMV foam vs BMV lotion 0.1197	

	Patients with scor	THEMA e of 0 or 1 at endpoi col population	nt	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 or 1 at endpoint	46 (81%)	6 (21%)	38 (66%)	11 (38%)
	y q	values		1 (3070)
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam v	s RMV lotion
< 0.0001	0.0215		BMV foam vs BMV lotion 0.0924	

		THICKNESS col population		
Mean values	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Baseline	2.63	2.61	2.55	2.66
Day 15	0.98	2.00	1.62	2.10
Day 29	0.44	1.86	1.10	1.97
Change from baseline	- 2.19	- 0.75	- 1.45	- 0.69
	pv	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs BMV lotion	
0.0001	0.0052		0.00	

	Patients with so	THICKNESS ore of 0 at endpoint col population		
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 at endpoint	40 (70%)	4 (14%)	24 (41%)	5 (17%)
	p.	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam v	vs BMV lotion
< 0.0001	0.0304		0.0026	

	Patients with scor	THICKNESS e of 0 or 1 at endpo col population	int	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 or 1 at endpoint	50 (88%)	7 (25%)	37 (64%)	8 (28%)
	p	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs	BMV lotion
< 0.0001	0.0028		0.00	

	COMPOSITE : Per Proto	PSORIASIS SCORE		
Mean values	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Baseline	7.88	8.32	7.71	8.07
Day 15	3.44	6.46	4.71	6.28
Day 29	2.00	6.11	3.50	5.79
Change from baseline	- 5.88	- 2.21	- 4.21	- 2.28
	p.	values		2.20
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam v	s RMV lotion
0.0001	0.0070		0.00	
	and the second second second		<u></u>	<i>717</i>

	col population		
BMV foam	Vehicle foam	BMV lotion	Placebo lotion
18 (32%)	2 (7%)	A desired of the second	1 (3%)
p	values		1 (3/0)
BMV lotion vs placebo lotion		BMV foam vs BMV lotion	
0.0164		0.4107	
	18 (32%) p v BMV lotion vs	18 (32%) 2 (7%) p values BMV lotion vs placebo lotion	18 (32%) 2 (7%) 14 (24%) p values BMV lotion vs placebo lotion BMV foam vs

	Patients with scor	PSORIASIS SCORE re of 0 or 1 at endpoi col population	int	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 or 1 at endpoint	33 (58%)	2 (7%)	20 (34%)	2 (7%)
	у пр	values		2 (770)
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs	BMV lotion
< 0.0001	0.0077		0.0152	

The results for the ITT population were as follows.

		CALING population		
Mean values	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Baseline	2.73	2.88	2.67	2.81
Endpoint	0.92	2.16	1.19	1.87
Change from baseline	-1.81	- 0.72	-1.48	- 0.94
	р	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs	s BMV lotion
0.0001	0.0337		0.08	
resile de la Albaia Albaia			0.00	340

	Patients with so	ALING core of 0 at endpoint copulation		
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 at endpoint	30 (47%)	2 (6%)	22 (35%)	4 (13%)
	р	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam v	s BMV lotion
< 0.0001	0.0285			076

	Patients with sco	CALING re of 0 or 1 at endpoi population	nt	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 or 1 at endpoint	47 (73%)	8 (25%)	39 (62%)	11 (35%)
	р	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs	BMV lotion
< 0.0001	0.0271		0.18	

		YTHEMA population		
Mean values	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Baseline	2.48	2.69	2.48	2.58
Endpoint	0.94	2.13	1.30	2.03
Change from baseline	- 1.55	- 0.56	-1.17	- 0.55
	p	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam v	s BMV lotion
0.0001	0.0042		0.0399	

	Patients with so	THEMA core of 0 at endpoint copulation		
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 at endpoint	26 (41%)	2 (6%)	16 (25%)	1 (3%)
	p,	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs	BMV lotion
0.0003	0.0091		0.0896	

	Patients with scor	THEMA e of 0 or 1 at endpo copulation	int	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 or 1 at endpoint	48 (75%)	6 (19%)	39 (62%)	11 (35%)
	p	values		1
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs	BMV lotion
< 0.0001	0.0271		0.12	

		E THICKNESS population		
Mean values	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Baseline	2.63	2.59	2.54	2.65
Endpoint	0.61	1.84	1.14	2.00
Change from baseline	- 2.02	- 0.75	- 1.40	- 0.65
	р	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs BMV lotion	
0.0001	0.0036		0.0	

	Patients with so	THICKNESS ore of 0 at endpoint opulation		
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 at endpoint	42 (66%)	5 (16%)	25 (40%)	5 (16%)
	pv	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam v	s BMV lotion
< 0.0001	0.0330		0.00	

	Patients with score	THICKNESS e of 0 or 1 at endpo opulation	int	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 or 1 at endpoint	52 (81%)	8 (25%)	39 (62%)	8 (26%)
	р	values		
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs	BMV lotion
< 0.0001	0.0019		0.01	

	COMPOSITE F	SORIASIS SCORE		
Mean values	BMV foam	Vehicle foam	BMV lotion	Placeted
Baseline	7.84	8.16	7.68	Placebo lotion
Endpoint	2.47	6.13	3.63	
Change from baseline	- 5.38	- 2.03	- 4.05	5.90
	pv	/alues		- 2.13
BMV foam vs vehicle foam	BMV lotion vs placebo lotion		BMV foam vs BMV lotion	
0.0001	0.0049		0.00	

	Patients with s	PSORIASIS SCORE core of 0 at endpoint population		
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 at endpoint	19 (30%)	2 (6%)	14 (22%)	
	р	values		1 (3%)
BMV foam vs vehicle foam	BMV lotion vs	placebo lotion	BMV foam v	s BMV lotion
0.0088	0.0177		BMV foam vs BMV lotion 0.4192	

	Patients with scor	PSORIASIS SCORE re of 0 or 1 at endpoi copulation	int	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 0 or 1 at endpoint	35 (55%)	2 (6%)	20 (32%)	2 (6%)
	p ·	values		2 (0%)
BMV foam vs vehicle foam	BMV lotion vs	placebo lotion	BMV foam vs	DIGUL
< 0.0001	0.0084			
			0.01	21

b. Investigators' global assessment of response.

The results for the Per Protocol population were as follows.

	NVESTIGATOR'S Per Proto	GLOBAL EVALUA col population	TION	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Completely clear	25 (44%)	2 (7%)	16 (28%)	2 (7%)
Almost clear	16 (28%)	4 (14%)	11 (19%)	4 (14%)
Marked improvement	4 (7%)	l (4%)	3 (5%)	2 (7%)
Moderate improvement	4 (7%)	2 (7%)	12 (21%)	3 (10%)
Slight improvement	6 (11%)	6 (21%)	5 (9%)	5 (17%)
No change	1 (2%)	11 (39%)	10 (17%)	9 (31%)
Worse	1 (2%)	2 (7%)	1 (2%)	4 (14%)
	pv	values		
BMV foam vs vehicle foam	BMV lotion vs	placebo lotion	BMV foam vs	BMV lotion
0.0001	0.00		0.00	

	INVESTIGATORS (Patients with score Per Protoc	LOBAL EVALUA of 1 or 2 at endpoints of population	TION nt*	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 1 or 2 at endpoint	41 (72%)	6 (21%)	27 (47%)	6 (21%)
	ру	alues .		
BMV foam vs vehicle foam	BMV lotion vs	placebo lotion	BMV foam v	s BMV lotion
< 0.0001	0.0211		0.0	
	* 1 = com 2 = aln	pletely clear nost clear		

The results for the ITT population were as follows.

	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Completely clear	26 (41%)	2 (6%)	16 (25%)	2 (6%)
Almost clear	17 (27%)	4 (13%)	13 (21%)	4 (13%)
Marked improvement	4 (6%)	1 (3%)	4 (6%)	2 (6%)
Moderate improvement	4 (6%)	2 (6%)	12 (19%)	3 (10%)
Slight improvement	6 (9%)	8 (25%)	5 (8%)	5 (16%)
No change	5 (8%)	12 (38%)	11 (17%)	11 (35%)
Worse	2 (3%)	3 (9%)	2 (3%)	4 (13%)
	ar i satu e grejësës regiale m is	values		1 (1370)

	INVESTIGATORS (Patients with score ITT p	of 1 or 2 at endpoir population	IION it*	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Score of 1 or 2 at endpoint	43 (67%)	6 (19%)	29 (46%)	6 (19%)
	pv	values		
BMV foam vs vehicle foam	BMV lotion vs	placebo lotion	BMV foam v	s BMV lotion
< 0.0001	0.01	33	0.02	
	$ * 1 = com $ $ 2 = a l \hat{n} $	ipletely clear nost clear		

c. Secondary efficacy variables. The scalp pruritus scores, the extent of scalp involvement, and the patient's assessment of the response are provided only for the ITT population, as follows.

		itus scores population		
Mean values	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Baseline	2.61	2.50	2.71	2.45
Endpoint	0.91	1.59	1.19	1.74
Change from baseline	- 1.70	- 0.91	- 1.52	-0.71
	p	values		
BMV foam vs vehicle foam	BMV lotion vs	placebo lotion	BMV foam v	s BMV lotion
0.0016	0.00	040	0.33	

		alp involvement opulation		
Mean values	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Baseline	4.00	3.88	3.79	3.94
Endpoint	2.30	3.47	2.90	3.52
Change from baseline	- 1.70	- 0.41	- 0.89	- 0.42
	рv	alues		
BMV foam vs vehicle foam	BMV lotion vs I	olacebo lotion	BMV foam vs	BMV lotion
0.0001	0.03	86	0.00	
			0.00	· ·

		lobal evaluation copulation		
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
Completely clear	26 (41%)	2 (6%)	15 (24%)	1 (3%)
Almost clear	20 (31%)	4 (13%)	14 (22%)	3 (10%)
Marked improvement	5 (8%)	5 (16%)	13 (21%)	5 (16%)
Moderate improvement	4 (6%)	3 (9%)	8 (13%)	4 (13%)
Slight improvement	0	10 (31%)	5 (8%)	5 (16%)
No change	7 (11%)	7 (22%)	8 (13%)	11 (35%)
Worse	2 (3%)	1 (3%)	0	2 (6%)
	рv	values		2 (0/0)
BMV foam vs vehicle foam	BMV lotion vs	placebo lotion	BMV foam vs	RMV lotion
0.0001	0.00	01	0.01	

4) Safety evaluation.

The incidence of adverse events which were judged to be possibly, probably, or definitely related to treatment in the BMV foam group, and the incidence of these events in the BMV foam vehicle group, were as follows.

	BMV foam	Vehicle foam
# pts	63	32
Paresthesia	1 (2%)	1 (3%)
Pruritus	1 (2%)	0
Psoriasis	1 (2%)	1 (3%)
Acne	1 (2%)	0
Alopecia	1 (2%)	0
Conjunctivitis	1 (2%)	0

All of the above adverse events in the BMV foam group were classified as mild in severity.

The results of the application experience query were as follows.

Incidence	and severity of local bu	uming/itching/stingin	g at Day 15 and 29	
	BMV foam	Vehicle foam	BMV lotion	Placebo lotion
# pts	63	32	63	30
Day 15 Within 30 min None Mild Moderate Severe After 30 min None Mild Moderate Severe	28 (48%) 25 (43%) 5 (9%) 0 56 (97%) 2 (3%) 0	11 (37%) 11 (37%) 6 (20%) 2 (7%) 30 (100%) 0 0	32 (52%) 25 (40%) 4 (6%) 1 (2%) 60 (97%) 1 (2%) 1 (2%)	15 (52%) 10 (34%) 2 (7%) 2 (7%) 27 (93%) 2 (7%) 0
Day 29 Within 30 min None Mild Moderate Severe After 30 min None Mild Moderate Severe	42 (68%) 17 (27%) 2 (3%) 1 (2%) 61 (98%) 1 (2%) 0	13 (41%) 11 (34%) 4 (13%) 4 (13%) 32 (100%) 0 0	47 (75%) 13 (21%) 3 (5%) 0 61 (97%) 2 (3%) 0	0 17 (57%) 8 (27%) 4 (13%) 1 (3%) 26 (87%) 2 (7%) 1 (3%) 1 (3%)

The total incidence of local burning/itching/stinging, and the incidence according to the maximum severity were as follows.

Product	Total		Maximum severity		
	incidence	Mild	Moderate	Severe	
BMV foam n=63	34 (54%)	28 (44%)	5 (8%)	1 (2%)	
BMV lotion n=63	33 (52%)	26 (41%)	6 (10%)	1 (2%)	
Vehicle foam n=32	24 (75%)	13 (41%)	7 (22%)	4 (12%)	
Placebo lotion n=30	20 (67%)	12 (40%)	5 (17%)	3 (10%)	

Two patients were prematurely discontinued from the study for adverse events that were considered to be treatment related; these were worsening of the psoriasis in one patient on the vehicle foam, and a rash of the face and ears in one patient on the placebo lotion.

Reviewer's comments: In summary, for the clinical signs the data were analyzed as a) the change in mean scores from baseline, b) the percentages of patients with a score of 0 at endpoint, and c) the percentages of patients with a score of 0 or 1 at endpoint. This was done for scaling, erythema, plaque thickness, and the composite psoriasis score. The comparative analyses were BMV foam vs the vehicle foam; BMV foam vs BMV lotion, and BMV lotion vs the placebo lotion. Results for the evaluable (per protocol population) were as follows.

For scaling, BMV foam was significantly superior to the foam vehicle in the change in mean scores from baseline, and in the percentages of patients with a score of 0 and with a score of 0 or 1 at endpoint. BMV foam was not significantly different from BMV lotion in the percentages of patients with a score of 0 or a score of 0 or 1 at endpoint, and was significantly superior to BMV lotion in the change in mean scores from baseline. BMV lotion was not superior to the placebo lotion in the change in mean scores from baseline, and was marginally superior to the placebo lotion in the percentages of patients with a score of 0 or a score of 0 or 1 at endpoint.

For erythema, BMV foam was significantly superior to the foam vehicle in the change in mean scores from baseline, and in the percentages of patients with a score of 0 and with a score of 0 or 1 at endpoint. BMV foam was not significantly different from BMV lotion in the percentages of patients with a score of 0 or a score of 0 or 1 at endpoint, and was significantly superior to BMV lotion in the change in mean scores from baseline. BMV lotion was superior to the placebo lotion in all three parameters.

For plaque thickness, BMV foam was significantly superior to the foam vehicle in the change in mean scores from baseline, and in the percentages of patients with a score of 0 and with a score of 0 or 1 at endpoint. BMV foam was significantly superior to BMV lotion in the change in mean scores from baseline, and in the percentages of patients with a score of 0 or a score of 0 or 1 at endpoint. BMV lotion was superior to the placebo lotion in all three parameters.

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For the composite psoriasis scores, BMV foam was significantly superior to the foam vehicle in the change in mean scores from baseline, and in the percentages of patients with a score of 0 and with a score of 0 or 1 at endpoint. BMV foam was significantly superior to BMV lotion in the change in mean scores from baseline and in the percentages of patients with a score of 0 or 1 at endpoint, and was not significantly different from BMV lotion in the percentages of patients with a score of 0 at baseline. BMV lotion was superior to the placebo lotion in all three parameters.

In the physician's global assessment of response, BMV foam was significantly superior to the vehicle foam and to BMV lotion in the overall global assessment, and in the percentage of patients that had a score of 1 or 2 (cleared or almost cleared) at endpoint.

Adverse events were primarily local burning, itching, and stinging, which was mild in most patients, moderate in a few patients, and severe in one patient.

Other clinical studies

1. Phase I study - Evans Medical. This study was performed to evaluate the tolerance to repeated doses of the BMV mousse (foam) formulation when applied to the scalps of 24 normal subjects. Applications of an amount approximately equivalent to 3.5 gm betamethasone valerate were made twice daily for 7 days. Blood samples were taken within 30 minutes pre-dose and at 2 hours post-dosing on days 1, 4, and 7.

Adverse events which were considered to be probably drug-related were pruritus in three subjects. The analysis of serum cortisol levels did not indicate any treatment effect.

2. Phase II study - Evans Medical. This study, performed in the UK, was a double blind, multicenter comparison of betamethasone valerate mousse (foam) with a placebo in patients with scalp psoriasis. Fifty patients were treated with applications twice daily for 28 days.

The primary efficacy variables were scores for erythema, scaling and plaque elevation, graded on a scale of from 0 to 4. Safety evaluations included morning serum cortisol levels at each return visit.

The analysis of the change from baseline in the mean scores for clinical signs was as follows.

	Clinical signs (means)	scores	
Visit	BMV foam	Placebo foam	p value
	Erythema		
Baseline	2.2	1.9	0.1800
Endpoint	0.8	1.6	0.0001
Change	- 1.6	-0.4	0.0001
	Plaque elevat	ion	
Baseline	2.5	2.1	0.0442
Endpoint	0.8	1.5	0.0126
Change	1.7	- 0.6	0.0019
	Scaling		
Baseline	2.7	2.4	0.1092
Endpoint	1.0	1.8	0.1092
Change	- 1.7	- 0.5	0.0035

Local adverse events were stinging in 16 (70%) of the foam group and 10 (40%) of the vehicle group; tenderness in 3 on the foam and 4 on the vehicle, and itching in 11 patients in each group.

Mean values for serum cortisol levels did not change notably in either treatment group, and no patients in the BMV foam group had a cortisol value below 5.0 ug/dL.

Labeling review

Ths sponsor's draft labeling of 7/21/98 has been reviewed by this medical officer and is appended.

Summary and evaluation

As was agreed in meetings between the Division and the sponsor, the following studies have been provided to demonstrate the safety and efficacy of Betamethasone Valerate Foam 0.1%: a vasoconstrictor assay, an HPA axis suppression study, and a multicenter, controlled study in patients with psoriasis.

In the vasoconstrictor assay BMV foam was shown to have a potency intermediate between that of a marketed BMV lotion and BMV ointment. In the HPA axis suppression study no suppression was found with application of 15 gm of BMV foam twice daily for 7 days to areas of dermatitic skin comprising 30% of the body surface area in patients with psoriasis and atopic eczema.

The clinical effectiveness study was a multicenter, double blind, randomized comparison of BMV foam with the foam vehicle, a marketed BMV lotion, and a placebo lotion in patients with moderate to severe scalp psoriasis. Applications of the test products were made BID to the scalp for 28 days. The efficacy parameters were a grading of scaling, erythema, and plaque thickness on a scale of from 0 to 4, and an investigator's global evaluation as one of seven categories of change from baseline.

For the clinical signs, results were that BMV foam was significantly superior to the vehicle foam in the change in mean scores from baseline, in the percentage of patients with a score of 0 at endpoint, and in the percentage of patients with a score of 0 or 1 at endpoint, for scaling, erythema, plaque thickness, and a composite score. BMV foam was either significantly superior to, or was not significantly different from, BMV lotion in the change in mean scores from baseline, in the percentage of patients with a score of 0 at endpoint, and in the percentage of patients with a score of 0 or 1 at endpoint, for scaling, erythema, plaque thickness, and a composite score.

In the physician's global evaluation of response, BMV foam was significantly superior to the foam vehicle and to BMV lotion, both in the overall assessment and in the percentage of patients that were cleared or almost cleared at endpoint.

Adverse events were primarily local burning, itching, and stinging, which were mild in most patients, and moderate in a few patients.

It is felt that the product, 0.1% betamethasone valerate foam, is approvable for the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses. This is the same indication as the comparator product, Valisone lotion, and the currently marketed E. Fougera's 0.1% betanethasone valerate lotion. In vasoconstriction studies, 0.1% betamethasone valerate foam was less potent than 0.1% betamethasone valerate ointment, and appeared to be equipotent to 0.1% betamethasone valerate lotion. In an HPA axis suppression study which was performed in accordance with Division guidance on protocol and trial design, there was no HPA axis suppression with 0.1% betamethasone valerate foam.

<u>Conclusions</u>: It is felt that the studies provided in the NDA adequately demonstrate the safety and effectiveness of BMV foam for the proposed labeling indication.

<u>Recommendations</u>: It is recommended that this NDA for Betamethasone Valerate Foam 0.1% be approved for the labeling indication 'For relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses'.

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Phyllis A. Huene, M.D.

Cc: Orig NDA
HFD-540
HFD-540/Huene
HFD-540/Cintron
HFD-540/Jacobs
HFD-540/DeCamp

10/19/98